

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-259148

(43)Date of publication of application : 26.10.1988

(51)Int.Cl.

F02M 25/06

F02M 25/06

(21)Application number : 62-090699

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(22)Date of filing : 15.04.1987

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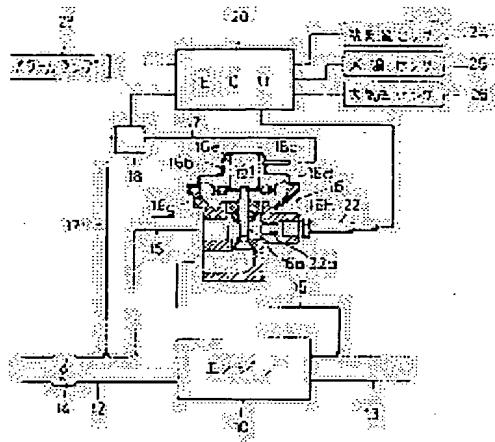
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(54) DETECTING METHOD FOR FAILURE IN EXHAUST REFLUX EQUIPMENT

(57)Abstract:

PURPOSE: To prevent the wrong diagnosis of failure judgment, in the case where a failure in an exhaust reflux equipment is judged when the detected temperature of the reflux exhaust gas is lower than a preset temperature, by prohibiting the failure judgment from being performed when the detected temperature of an engine is lower than a preset temperature.

CONSTITUTION: An electronic control unit 20 causes a solenoid valve 18 to open, when an engine 10 is in a prescribed operating condition, according to each of the detection signals from an intake temperature sensor 24, a water temperature sensor 25 and an atmospheric pressure sensor 26. And then, an EGR valve 16 is caused to open so that a part of exhaust gas in an exhaust pipe 13 is caused to flow back through an exhaust reflux passage 15 into an intake pipe 12. Subsequently, when the detected temperature of the reflux exhaust gas is lower than a preset temperature, it is judged that an exhaust reflux equipment is out of order, and an alarm lamp 28 is turned on. In this case, until the detected temperature of the engine 10 reaches a preset temperature, the failure judgment on the exhaust reflux equipment is prohibited. Thereby, the wrong diagnosis of failure judgment due to an unstable temperature condition can be prevented.



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[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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